

Experience Summary:

- Over 10 years as senior software QA and test engineer, previous experience as developer
- White box coding to automate API testing on various operating systems and databases
- GUI Automation Testing including scripting
- Expertise with several development methodologies from Waterfall to Agile/Scrum
- Experience with various test methodologies, Functional, Test (TDD), Behaviour (BDD)
- Experience with many different programming and scripting languages
- Wrote and maintained automated testing harnesses
- Technical Writing and Documentation
- Very organized, developed and constantly maintained internal websites
- Excellent communication and writing skills

Software: C, C++, Java, JavaScript, SQL, Selenium, SilkTest, Perl, Unix shells, HTML, XML, REST, JSON, make, ant, Perforce, Rally, RCS, CVS, SVN, TestLink, Bugzilla

Operating Systems: UNIX, Linux, DOS, Windows, Mac OSX

Professional Experience

4/2012 to 6/2014 **Senior QA Engineer** StrongView, Redwood City, CA
Automated testing of the UI using Selenium and the Java API webservices using IntelliJ IDEA. Coded tests and test harnesses. Wrote test tools such as large data generation and test summarization in bash and Perl to run on Linux. Automated JSON posts and evaluated responses. Used Firebug to find identifiers, CSS and JSON posts. Automated REST calls using cURL. Wrote interfaces to external databases (Oracle, MySQL, PostgreSQL and MS SQL) using Java. Enhanced test framework that parsed test cases in XML.

5/2007 to 4/2012 **Sr. Software QA Engineer** BMC Software, San Jose, CA
Senior QA position in the BMC division formerly known as Remedy Software. Experience in validation of complex IT management products based on relational databases. Responsible for developing automated tests using JavaScript and Perl for product API's, including Atrium CMDB cloud support. Tested installations and upgrades with database configurations on Windows and various UNIX platforms. Worked with offshore team coordinating test run analysis and defect verification. Maintained project website. Responsible for backward and forward compatibility testing involving several previous releases. Managed the environment inventory for QA, planning for and ordering hardware for the team annually.

8/2004 to 5/2007 **Sr. Software QA Engineer** Keynote Systems, San Mateo, CA
Senior position in test engineering. Responsible for developing automated tests using SilkTest, Perl and Bash. Used SQL extensively in test scripts to interface with databases. Silk Central used to manage SilkTests and also tests on Solaris and Linux platforms. Documented manual test steps and procedures. Wrote user manuals for internal Operations tools. Extensively revised and enhanced QA department website and documentation.

4/2004 to 8/2004 **Product Validation Engineer** Intel, Santa Clara, CA
Contract job in Product Validation. Testing compilers and Intel Threading Tools on various Windows and Linux platforms. Testing integration of Intel products with MSVS .NET on Windows. Translated OpenMP tests from C to Fortran. GUI test automation with AutoIt.

5/2000 to 10/2003

Sr. Software QA Engineer

Silicon Graphics, Mtn. View, CA

Senior position in Compiler Quality Assurance. Wrote new tests for regressions, bug fixes and new features in the Fortran, C, and C++ compilers. Found and analyzed new bugs and filed detailed reports. Wrote test plans for new releases. Wrote shell scripts to assist running many test suites with various optimization options. Triaged test failures in optimized code built with the SGI compilers on Mips/Irix. Also ran tests suites with the Gnu and Intel compilers on IA32 and IA64 under Linux. Tracked test results and wrote summary reports for the whole QA team. Assisted with customer support for Beta releases.

Extensively updated department QA web pages with information about test suites, procedures, test results, and test machines. Created user documentation for the SGI test driver. Reviewed all compiler test suites and documented what state they were in for all the SGI compiler products.

Ported several test suites to use the SGI test driver by writing shell scripts. These included Fortran tests from Cray, Open Source C and C++ tests (e.g. Gnu tests for Exception Handling), and commercial suites from Perennial (CCVS and CVSA, including C99 tests).

Ran Java tests (JCK, Java 3D and demos that are part of Sun's release) for Java 141.02 release in both classic and hotspot modes. Used make to maintain builds and test suites.

1988 to 2000

Software DesignerTandem Computers, Cupertino, CA
(now a division of HP)

Senior position in Languages and Tools Quality Assurance. Maintained and improved test suites for Ada, C, C++, TAL (Tandem Application Language, used for embedded OS programming), CRE (Common Run-time Environment), and mixed language compatibility. Developed a new test library for embedded SQL support in TAL. Designed and developed tests for Tandem extensions to C and FORTRAN for NonStop (process pair) programming support. Developed a test driver environment checker and improved standard test report formats. Automated existing manual tests. Performed validation testing of the Tandem Ada compiler.

Wrote test plans and specifications conforming to ANSI/IEEE 829-1983 standard. Wrote extensive documentation for testware use and maintenance. Designed and developed tests and test drivers. Participated in code inspections and reviews in various roles, including moderator. Reviewed technical documents and manuals intended for customers. Prepared formal approvals for software releases. Developed the QA department website.

Supported the Languages and Tools section by providing utilities and formalizing procedures. Represented the section on an inter-departmental team, which defined testware development standards for Tandem. Trained new employees and contractors on Tandem QA procedures. Worked with development to improve QA awareness.

Other Professional Experience

Previously worked as a software developer with General Electric and as a junior hardware engineer with IBM. Summer college internship with Motorola in Schaumburg, Illinois.

Education

B.S.E.E., Information Engineering and Computer Science, University of Illinois, 1977

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